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problem

Are older workers facing tough times in high tech?
Or are they simply not pulling their weight in an industry that never stops innovating?

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COMPUTERWORLD

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IT's Age Problem

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HeadsUp



INAILAND PLOUI

Consumers Face Hard Drive Price Hikes

LOODS IN THAILAND are wreaking havoc on manufacturers of hard disk drives.

While HDD wendors are expecte

While HDD vendors are expected to keep computer makers — their largest customers — supplied with inventory, the consumer retail market is likely to be hit by shortages and price increases, analysts said.

Two research firms, IHS iSuppli and IDC, have predicted that the overall shortage due to the flooding will reach 25% to 28% over the next six months.

Western Digital, the largest hard drive producer, will likely be hurt the most: IDC predicted that up to 75% of its production lines will be temporarily shut down. Western Digital and Toshiba have already announced temporary shutdowns of their Thailand factories.

ry shutdowns of their 1 halland factories. For its part, iSuppli said fourth-quarter hard drive shipments will drop by 28%, to 125 million units, from 173 million units in the third quarter.

Consumers should expect fourth-quarter prices to be at least 30% higher than thirdquarter prices.

"You'll start to see PC makers increase prices for some products," said John Rydning, an IDC analyst. "So, indirectly, consumers will face some higher prices because of higher HDD prices."

Prices on retail sites have already risen and in some cases even doubled.

Analysts predicted that the HDD component in shortest supply will be the shder; it's the block onto which the record and playback mechanism is mounted.

- Lucas Mearias

DATA CENTERS

Better Windows Support Due on IBM Mainframes

IBM mainframes will soon be able to manage Windows applications, bridging one of the last major divides in data centers.

IBM had already announced that it intended to deliver that capability with its zEnterprise 196 mainframe, but it recently said the Windows management function will be available on Dec. 16.

There are many Windows-based applications, including ones made by IBM, inside most data centers; they typically interact with mainframes to access data. Historically, all Windows software has had to be managed separately.

But now, IBM has promised, the security and speed of mainframe environments that include Windows systems will be improved. It will be possible to connect systems on a private network, thus avoiding some network hops and enabling the of integrated management tools.

toe Clabby, an analyst at Clabby Analytics, said the new features should reduce the labor required to run mainframe environments that have multiple operating systems.

operating systems. Moreover, he added, "if you can manage this as a single architec-

ture, it saves money."
Greg Lotko, business line executive in IBM's System z division, said
the addition of Windows support
"is reality recognizing that the world
is heteroseneous."

- PATRICK THIRODEAU

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HEADS UP

RETWEEN THE LINES

Ry John Klossner



WEB 2.0

Social Media Success Is Still Elusive

T'S CLEAR that companies are using social networks to connect with customers. Less clear, though, is what success means in this new media and how businesses can achieve it.

That was a hot topic at the recent Seattle Interactive Conference

We haven't seen a lot of 'R' in the ROL" said David Camp, head of marketing for AmazonWireless, Amazon's site for sales of cellphones and service plans. He was referring specifically to financial returns

But Kim Johnston, vice president of marketing at Parallels, said she sees good returns - although not necessarily the type Cana was referencing. "The R," she said. "could be insight, not just money." Parallels - which makes virtualization software for Macintoshes - learns a lot from customers via Facebook and Twitter she added

Tapping into customer feedback streams can be tricky, said speakers and other attendees. T-Mobile monitors social networks to pather insights that can benefit product development, said Alex Samano, general manager for Bobsled, a T-Mobile voice-over-IP product. But "you have to be cautious of what you're hearing," he said, since not everyone who posts on Facebook is necessarily representative of other customers.

Still social media-based interactions with customers can be useful. Ten years ago, it was common to pay \$150,000 to get a focus group of customers together. "You don't have to do that anymore." Samano said.

The rate at which social media followers turn into paying customers varies. Amazon-Wireless, for instance, hasn't lound social networking tools to be particularly efficient at converting traffic into sales, Camp said

T-Mobile, however, has had great success - for some products. The company launched Bobsled initially for Facebook users and, owing to its media-launch strategy, began signing up users at a rate of 3,000 per hour, Samano said.

- Nancy Gohrang, IDG News Service -

Micro Burst

Hears around the world will have access to

public Wi-Fi hotspots in 2015 That's 350% more than today's total.

SECURITY

Report Warns of Cyberspying by China, Russia

The U.S. can expect more aggressive cyberespionage efforts from China. Russia and other countries looking to collect information is areas such as pharmaceuticals, de fense and manefacturing, according to a new government report.

The report, from the Office of the National Counteristelligence Execu tive, also provided recommendations for how organizations can strongthen their defenses.

"Chinese actors are the world's most active and persistent percetrators of economic estimage." the report said. "Russia's intelligence services are conducting a range of activities to collect information and technology from iLS, targets."

Sensitive information on smart obones and lantnes is an attractive target for cybersoles. The report says encoyotion, multifactor authentication and real-time network

monitoring may help keep data safe. The report cited the case of Dona fan Chung, an engineer with Rock well and Boeing who worked on the B-1 homber and was found to have 250,000 documents in his house.

Wybersmane makes possible the near-instantaneous transfer of enormous quantities of information." the report said.

DEREMY KIRK IDG NEWS SERVICE



HEADS UP

BETWEEN THE LINES By John Klossner



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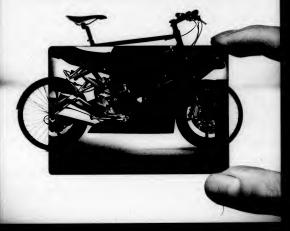
Sensitive information on smartphones and laptops is an attractive target for cyberspies. The report says encryption, multifactor authentication and real-time network monitoring may help keep data safe.

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"Cyberspace makes possible the near-instantaneous transfer of enormous quantities of information," the report said.

- JEREMY KIRK, IDG NEWS SERVICE

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Hadoop Is Ready for the Enterprise, IT Execs Say

Big companies are using Hadoop systems in big projects, despite concerns about issues such as security. By Jaikumar Viiayan

stored before," he said.

The data is aggregated into a common platform for use in a rang of customer-focused data mining and data analytics tools, Feinsmith said.

Meanwhile, eBay is using Hadoop technology and the Hbase database, which supports real-time analysis of Hadoop data, to build a new search engine for its auction site.

Hugh Williams, vice president of experience, search and platforms at eBay, said the new engine, code-named Cassini, will replace technology the company has used since the early 2000s. The update is peeded in part to handle surging volumes of data.

He noted that eBay has more than 97 million active buyers and sellers and over 200 million items for sale in 50,000 categories. The site handles close to 2 billion page views, 250 million search queries and tens of billions of database calls daily, he added.

The company has 9 petabytes of data stored on Hadoop and Teradata clusters, and the amount

is growing quickly, he said. Williams said about 100 eBay engineers are working on the Cassini project, making it one of the company's largest development efforts.

The new engine, slated to go live next year, is expected to respond to user queries with results that are context-based and more accurate

than those provided by the current system, he said. Feinsmith warned that IT shops interested in Hadoop should be aware of potential security issues. And he explained that aggregating and storing data from multiple sources can create a sh of problems related to access control and data management, while raising questions about data entitlement and data ownership.

Feinsmith also listed other potential Hadoop drawbacks that users should be aware of before embarking on big projects. For instance, he said the Hadoop marketplace is "very confusing," featuring an oft-changing state of vendors, products and standards. In addition, skilled Hadoop engineers are scarce.

And Williams noted that related technologies, such as Hb are still somewhat immature, which raises questions about system stability.

But Hadoop has plenty of potential Feinsmith said that IT workers at JPMorgan Chase are debating whether relational database technologies will evolve to meet the bank's emerging big data needs, or if Hadoop-based systems will become adept at transaction processing. •

ESPITE SOME LINGERING USER CONCERNS about security and other issues, Hadoop is ready for ente prise use, according to IT executives at the Hadoop erence in New York earlier this month. Larry Feinsmith, managing director of IT at IPMorgan Chase, told a keynote audience that the financial services firm has been increasingly using the open-source storage and data analysis framework for almost three years. IPMorgan Chase still relies heavily on relational database

systems for transaction processing, but it uses Hadoop technology for a growing number of purposes, including fraud detection, IT risk management and self service, Feinsmith said.

With over 150 petabytes of data stored online, 30,000 databases and 3.5 billion log-ins to user accounts, data is the lifeblood of JPMorgan Chase, Feinsmith said. Hadoop's ability to store vast volumes to collect and store Web logs, transac-

......

of unstructured data allows the company tion data and social media data. "Hadoop allows us to store data that we never

Hadoop allows us to store data

play with





How to Cut Better Deals With SAP

Analysts and users offer tips on how to get the best contract terms from SAP as the year draws to a close. By Chris Kanaracus

T'S CRUNCH TIME for many SAP customers looking to hammer out new software deals and contract renewals before the end of the year.

Experts acknowledge that it might be difficult to persuade SAP to budge on certain things, such as ans maintenance fees for its applications, but customers can take steps to improve their chances of getting strong returns on their investments in SAP software. Here are nine tips to help SAP users secure the best possible deals for both the short term and the long term.

1. Take stock of your existing SAP investments. "If you're in the middle of [negotiations], the best thing you can do to arm yourself is figure out your usage said Ray Wang, CEO at Constellation Research and a veteran SAP contract negotiator. You could drop unused licenses or move them to other applications.

2. Make SAP's salespeople earn their money. "You want an account manager focused on ensuring your success and solving problems, not searching for new revenue opportunities," said Forrester Research analyst Duncan Jones in a report. Contracts should compensate SAP salespeople for "aspects such as product adoption."

3. Think about bulk purchases. "We would [get] the best deals by accumulating multiple product purcha and negotiating hard down to the last minute," said Tim Birnley, director of enterprise applications at SAP user Bentley Systems, Birnley also said users will "likely get a better deal in November than December."

4. Consider a la carte deals. If you buy on a product-byproduct or site-by-site basis, you might end up paying double the amount you'd pay in an enterprise deal, but the expanded choice and flexibility could make it worthwhile, Jones said.

5. Don't lose sight of the big picture. If you're hammering out a new deal, secure contract terms that address the application's full life cycle, from purchas to implementation to eventual replacement, Wang said. You should even think about what if scenarios, such as mergers and acquisitions.

6. Don't use the L word lightly. Threats to leave SAP only work if you're serious. "To get out of a contract, you need to be ready to leave," Wang said.

der becoming an early adopter to take advantage of discounts - but be wary. SAP has been rolling out many new products recently, and sales reps are no doubt pushing those offerings hard, hoping to get customers with stable core ERP systems to open their wallets. But you should be aware that heavy discounts offered by an eager salesman might be offset by hefty annual maintenance fees over the long run, Wang said.

8. Have heart-to-heart talks with SAP. A strong

relationship involves more communication than yearly contract talks. You should line up "strategic alignment" meetings that include top executives to "help clarify stakeholders' opinions of SAP" and "enhance SAP's opinion of you as a potential enabler rather than merely a negotiation adversary," Jones said.

Get ready for next year. According to Jones, it's important to get a real handle on how crucial SAP is to your business overall before starting negotiations. •

Kanaracus is a reporter for the IDG News Service.

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Joe Spagnoletti

This CIO achieves business goals while deftly balancing his work and home lives.

Family: Married for 23 years, with a 19-year-old son and a 14-year-old daughter.

What are your interests outside of work? Extreme sports - snowboarding, surfing and mountain-biking.

What person do you most admire? My dad. He was a teacher, he raised six kids, and every one of us is successful. There are many pearls of wisdom he shared. One I remember is: "Don't ever tell anyone how good you are. If you're that good, they'll tell you - and then don't believe them."

What futuristic technology do you hope becomes a reality? It would be so great if the technology in cars could prevent accidents and stabilize traffic patterns.



AMPBELL SOUP senior vice president and CIO Joe Spagnoletti is all business. He talks about business objectives and transformation, and he looks at technology as a way to achieve those goals. It's an outlook that helped earn him the Fox IT Leader Award from Temple University's Fox School of Business and Management earlier this year. Spagnoletti, who has been with Campbell's IT operation since 1997 and has been CIO since 2008, says business transformation is happening rapidly and it's pushing IT to change quickly, too. Here he shares some of his other ideas about technology and its role in today's business world.

When you speak publicly about IT, you say very little about technology. If you had to sive a short description of the CIO's job today, what would you say? In our company, there are just a few major premises. One is we have to help the company grow. Second, we have to help the company operate as efficiently as possible. We need to be a critical Continued on page 14

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THE GRILL | JOE SPAGNOLETTI



I spend more than 50% of my time working with people,

clarifying objectives, mentoring and coaching and making sure we have the right people. Continued from page 12 partner in the contemporizing of our culture. We truly believe in technology as an enabler. We're not kidding ourselves that technology is the end-all, be-all. It's helping the company, and you can do that by having insight into how work is done and shaping how it can be done better technically.

What, then, are your ggest responsi-lities as CIO? I think first and foremost are the people - helping develop the best possible capabilities and insights through people and with people. I spend more than 50% of my time working with people, clarifying objectives, mentoring and coaching and making sure we have the right people. And then it's about leading from out front, understanding our business and looking for ways where our compete

cies and technology can help the company grow. I spend very little of my time with padgetry and focusing on the bits and bytes.

What are the biggest challenges you fine? It's a balance of doing the right thing and doing it at the right speed and constantly being connected to the agenda of the company and shaping the work that we need to do, hopefully exceeding expectations for what people want and when they want it, but also to help realistically set expectations.

We have technology from the farmer to the shelf and all the administrative functions, too. So everybody's narrow view is the most important, and some days you could spend your day debating whether you need a portal for communication or optical technology on a harvester and what's going to drive more value to the company. People's expectations are rising, resources are limited and balancing that is an every-moment thing. time do you do that?! wouldn't say there's a formula, but there are some principles. Vos focus on the enabling strategies at a company level, and those are clear, so they'ret the primary driver. Second, you look at value. And there's economic, none-economic and strategic values, and gain you're making trade-offs between them. So when you're trying to declose you and how it first with our enabling strategies and, for the principles of the second principles and the second principles and the principles and the principles and the second principles and the principles are also and the principles and t

How do you ensure that IT is ready to deliver what's needed when the pace of business transformation is so fast? It's alignment, in the way we structure IT, in the business engagement teams that we have. They're smaller, but they're more senior. They live with their business partners, and they do strategic planning together. What if your investment adviser was with you in the house all day, hearing your conversations, and then showed up at the end of every month and said "here's what you should be thinking about"? That's how we do it. We're migrating into this very integrated alignment role with the purpose of shaping IT demand by being in the moment all the time. We've formally organized ourselves to do that. It's not minute to minute, but it is frequently - and with a certain level of depth we've never had before. We just fully restructured the global IT team into this model at the end of lune.

what technologies will be the most important for giving companies a competitive advantage in the next few years? Mobility/cloud. I put them together because it is an agilization that can be anywhere, and the preson can be anywhere. And them there's big data, which is analytics. So much of the transaction side of the house, it is in that continuous optimization mode, and there in or treemedous inconston. The big shifts are modellity and having the ability to be out in free of the consumers with information, and mabehaviors and patterns, local demographics and data. And on the consumer side, how do yo bring your brand to the world, and how do you represent your company in mobile and social media?

One of your recent tweets was philosophicals "if work-life balance is a state of mind, then work-life integrates begins with the person, not the stemhogy." I guess I'm seen as the person [at Campbell] who can balance and keep it all together. Most [people] are struggling with how to make it all work. We all think sethonology will help with work-life balance, but technology only makes it harder if you don't start by thinking about what is important to you.

Interview by Computerworld contributing writer
 Mary K. Pratt (marykpratt@werizon.net)

WHO MAKES THE HIGHEST PERFORMANCE LOW LATENCY NEXT-GEN FIREWALL?





SONICWALL ENTERPRISE.





THORNTON A. MAY

Let's Keep the Board of Directors in the Loop

Many IT leaders simply aren't keeping up with the workings of their boards of directors. HE ROLE THAT IT PLAYS in value creation should concern the very top levels of management. That being so, your company's board of directors should be well versed in what is happening in IT. Chances are that's not the case.

In fact, my research suggests that we have thought very little about what boards of directors know about IT, what they should know about IT and what they should do about IT. The smart people in this industry must start focusing on board competence.

Ironically, I stumbled upon this surprising opacity while talking to a group of IT folks who are the very best at digging out, understanding and sharing information. I was conducting a survey of the top analytic professionals at the highest-performing companies in the world and asked these three board-related questions:

- Which board member is it most important
- for you to have a close relationship with? If you could talk to any board member, who would it be?
- If you could talk to the board for two hours, what stories would you tell?

I hadn't expected the answers that these questions elicited. For the most part, the respondents (some of the smartest people in analytics) paused and then

admitted, "Gee, I never really thought about that." What that unambiguously tells me is that what board members are thinking isn't typically topof-mind for analytic executives. The question for

you, my readers, is whether it should be. Intrigued by what these analytic professionals bad to say (or rather, didn't have to say) about IT's relationship with the board of directors, I expanded my survey to include CIOs and CISOs. The responses were similar, with the exception that most of the CISOs had a long list of things they

were ready to talk to senior management about. What the data tells me (besides the panting-dog need of CISOs to be listened to) is that there is, in many organizations, a fundamental disconnect between the board and the enterprise's IT community. Stated more plainly, many IT leaders aren't keeping up with the workings of their boards of directors. That has to change

Earlier this month at Florida State College at Jacksonville, we conducted a workshop with the executive in charge of enterprise information quality at a global enterprise. This executive - as hard-working and dedicated an IT professional as you will ever meet - was charged with consolidating information nent tools. The "as is" situation he described embled a technological version of Noah's Ark, meaning the organization had purchased two of just about every tool imaginable. The workshop articipants came up with some very plausible mo the ball-forward recommendations. Suggestions included doing a baseline inventory and coming up with a list of tools you want to keep based on criteria such as how easy it is to support, whether employees like it and whether it will scale globally. It was only at the end of the discussion that one of the participants suggested soliciting board support for the effort to consolidate information management tools

Given the fact that the organization's ultimate success in the marketplace hinges on the quality of the information that management uses to make decisions, this doesn't seem like such a bad idea to me. What do you think? .

Thornton A. May is the author of The New Know: Innovation Powered by Analytics and executive director of the IT Leadership Academy

at Florida State College at Jacksonville. You can contact him at thorntonamay@ aol.com.

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Are older workers facing tough times in high tech?

Or are they simply not pulling their weight in an industry that never stops innovating?



GE BIAS: Some consider it IT's dirty little secret, or even IT's big open secret.

Most high-tech employers would likely deny that age discrimination is an issue at their companies. But many IT workers over 50 beg to differ, saying they have experienced age bias or know someone who has.

The bias can take several forms, they say. Their salaries might stagnate. They might have few or no opportunities for advancement. They might not be included in training and



COVER STORY

professional development programs. And they might be the first to be laid off and the last to be hired.

As a result, they may be hit harder by the recession. According to recent U.S. government data, unemployment rates for older IT professionals have increased more quickly than the rates for younger tech work the recession began some three years ago (see chart, page 24).

All of that can add up to a tough road for older people in high tech.

Age bias is "something that no [employer] talks about. But it's a reality in tech that if you're 45 years of age and still writing C code or Cobol code and making \$150,000 a year, the likelihood is that you won't be employed very long," says Vivek Wadhwa,

who currently holds academic positions at several universities, including UC Berkeley, Duke and Harvard.

As Wadhwa's observation indicates, "age bias" is a simplistic label plicated set of factors that influence the job prospects for senior tech employees. When considering workers over the age of 50, employers take the following factors into account:

m The relevance, applicability and currency of their skills, which may or may not be up to par with those of younger employees.

- The level of compensation they expect, which is typically higher than the salaries younger people seek. Their behaviors and attitudes, which can become rigid and
- narrow-minded with age. . Their energy level, which is presumed to he lower than that
- of a 25-year-old. While none of these generalizations is necessarily true for any particular candidate, each is a stereotypical assumption about

older workers. What's more, they are all logical and legal reasons for an employer to fire, or not hire, someone. "If you can hire someone fresh out of college for \$60,000 who is likely to know the latest technology, or you can hire someone

45 years old who's making \$140,000, who are you going to hire? That's the harsh reality, whether we like it or not," says Wadhwa. 53, who started his career in IT as a programmer and then went on to he an entrepreneur before entering academia.

Robert Ayr hears that message loud and clear. At 57, he's fully and happily employed in IT as the manager of production services at Irving, Texas-based VHA Inc., a national network of not-for-profit healthcare organizations. He gives himself credit for managing his career well through turbulent times, but at the same time, he can't help but look over his shoulder.

By his own estimate, since graduat ing college in 1977, Ayr has held nine or 10 technology positions all over the country — in California, Massachusetts, Texas and New York. "Especially in the beginning, I was moving all

You still picture vourself as the 30-year-old hotshot. but the reality is you're

not that guy anymore. ROBERT AVR. MANAGER OF PRODUCTION SERVICES, VHA INC.

over the place - to expand my knowledge base and to further my career," he says

As he got older, he moved less and staved in positions longer, but always took care to keep his skills fresh, moving from mainframes to VMS to his current spe cialty - servers. "I say every 10 years it's time to retool," he explains. "I keep trying to learn as much as I can, otherwise you

become a dinosaur." Even so, Avr acknowledges that the climate begins to change as the years of experience add up. He recalls when he was passed over for a job years ago in favor of a candidate who had nearly the same credentials as he did but was 20 years younger

"I ran into the guy a couple months later at a users' group meeting, and I asked him

right up front what kind of money they were paying him. The bottom line is, he was willing to work for less. That's what happens." "I was always the youngest person wherever I went; now I'm one of the oldest," Avr says, "You still picture yourself as the 30-year-old

Older Workers by the Numbers

hotshot, but the reality is you're not that guy anymore." What do we know about the aging workforce in the U.S., and about older tech workers in particular?

For starters, more older Americans are remaining in the overall workforce. Last year, the percentage of people aged 55 and older in the workforce reached 40%, its highest level in 35 years, according to a study published in February 2011 by the Employee Benefit Research Institute. And that's after the 2008-2009

recession, when many older workers lost their jobs. But are older IT professionals remaining in the workforce? Solid numbers are difficult to find; the data that is available is sparse and sometimes inconsistent. Studies of older workers rarely break down results by profession. Recruiting firms offer data on hiring, and sometimes on salaries, by profession, but they typically don't break it down by age.

Other studies track unemployment, but not by age or profession - so it's difficult to know how many older IT professionals want work but can't find it. The picture is further blurred when

companies outsource and offshore IT jobs, or import workers through the H-1B and other visa programs potentially displacing U.S. workers, including older employees.

Add the fact that some IT professionals voluntarily bail out at a certain age, either to pursue new careers or to start their own business es, and you can see why researchers find it difficult to quantify trends. One set of data that does bring

several of these factors together comes from the U.S. Bureau of Labor Statistics (BLS). The agency released numbers in early 2011 that show that

Continued on page 22







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aging gracefully

Y OU MAY NOT BE ABLE to turn back the clock, but there are a few things you can do to increase the likelihood of getting a jo

Here is a list of things you should and shouldn't o

veen nous skulls up to date

Consider moving into IT managemen

Take advantage of a technical career path, if your compai offers one.

Build and maintain a professional network independent of your corrent position

Learn how to use social media

Dress like your co-worker

Act bored or fired either at your job

Come off as a know-it-all

Continued from page 20

older IT workers have higher rates of unemployment than both younger IT workers and older workers in other professions.

In the category of "computer and mathematical occupations," the overall unemployment rate for people aged 55 and older jumped from 8% to 8.4% from 2009 to 2010, according to the data. For people 25 to 54 years old in that job category, the unemployment rate fell from 5.4% in 2009 to 4.5% in 2010.

ployment rate lett rom 5.1% in 2009 to 4.5% in 2010.

Those figures are particularly striking when compared to the overall population, where 55-plus workers had lower unemployment rates (7%) than the 25-to-54-year-olds (8.5%) in 2010.

That trend seems to be reflected in the level of anxiety among older IT workers who still have jobs. According to Computerworld's 2011 Salary Survey, the number of IT people feeling somewhat or very insecure in their jobs rises steadily with age (see chart, page 23).

As to the flat-lining of wages that's rumored to sometimes happen in the second half of a high ether career, Computerworld's survey didn't turn up evidence of age bias in actual salaries, but employees aged 55 and older were the most likely to report that they had generally 'lost ground financially' in the past two years.

An academic study of IT salaries published in 2006 did show interesting disparities in compensation by age in three specific insurty segments — finance, IT and medical. Although the report is now out of date — it was based on data from 2001 — at least one of the original researchers believes its findings still hold true.

"The dow economic recovery and the stubborn high unemployment rate we have right now only make age discrimination even more pronounced," says Jing Quan, an associate professor at Salisbury University in Salisbury, Md. "Tf companies are more likely to value IT workers who have the most updated skill sets and can get the job done," he says. "And those are more likely younger IT workers."

Keep Up or Keep Out

The hyper-accelerated pace of change in high technology makes it a challenging field to keep up with. Quan puts it bluntly: "The special characteristics of the IT industry — highly competitive, fast-paced, short skill update cycle — do not favor older workers."

Julie McMullin, a professor at Canada's University of Western Ontario, elaborates. Perceptions of older, in this particular industry, have a lot to do with competing demands, says McMullin, who leads an international project called Workforce Aging in the New Economy (WANE) that studies aging and workforce restructuring in the T1 industry.

"If you're an unencumbered worker" — that is, single with lots of time to work extra hours and attend training to update your skills — "then you're 'young," she says.

By those standards, Ronda Henning could pass for a spring chicken. In real-life years, she's 53, but by her own estimate, she has logged enough extra hours and obtained enough degrees to give younger workers a run for their money.

A senior scientist specializing in security at Harris Corp., a communications and IT company based in Melbourne, Fla., Henning has earned several graduate degrees to supplement her undergraduate degree (a R.A. in English and political science from the University OF Ettsburgh). She holds an MRA from the Florida Institute of Technology and an M.S. in computer science from Johan Hopkins University, and she's currently working

toward a Ph.D. in information systems.

Beyond that, Henning has taken care to invest in her career on her own time — publishing and presenting papers at conferences and identifying and pursuing new business initiatives within her organization. "Often, that has to happen on your own time, in addition to your standard assignments," he warms.

And then there's the constant influx of the new, and the challenge of separating signal from noise. "I make a conscious effort to stay current, but these days, it's very hard to absorb everything and figure out what's truly important, 'Henning acknowledges." It can become a 24-hours-4ay job to try and do that."

To be sure, IT isn't the only profession in which older workers are vulnerable if they haven't kept their skills up to date. Administrative assistants who don't know the latest office productivity software, or journalists who don't have multimedia skills, for example, are in the same boat.

In fact, as technology pervades more and more professions, the pressure to keep up with the pace of change is affecting a wider swath of the population,

especially baby boomers who are reluctant, or unable, to retire. "It's the same thing everywhere, except in IT

it happens faster," says Wadhwa. "In IT, you're at the epicenter of the earthquake in technologies."

Hot Jobs vs. No Jobs

Certain types of IT jobs appear less susceptible to ageism than others. Systems architects and project managers, for example, are relatively safe, observers agree, as are IT employees with highly specialized skills such as scientific programming or mobile application development, provided those skills remain in demand.

And management can be a haven for aging IT folks who have people skills. Salisbury University researcher Quan's report showed that in management, if not elsewhere, older IT workers made higher salaries than the under 40 set.

These days, companies seem more willing to hire older IT executives than they were five to 10 years ago, says Seeve B. Watson, a managing direct of a executive recruiting firm Stanton Chase. Companies "need someone who can hit the ground running," he says. There's less interest in giving a boneymono period to mewomer, less time for training than there was in the past." In

addition, he sees a talent gap in manage ment, probably created by the fact that baby boomers are starting to retire.

L'Îkewise, companies are willing to look at dolew onderes who have the skills the organization needs. For example, Ancelis Technologies, a maker of semi-conductor capital equipment, needs processionals with highly specific skills—in-cluding physicists, experts in robotics and organizations with ProOTH experience—sup Jun fette In-consecuted and play to the contract and repair to the contract and repair to the contract and repair to the power of the contract and repair to the Deverty, Mass.-based company "Sometimes it's hard for us to find people who are good at this noftware," the stays.

Fallon doesn't see any negatives to hiring older people. Because they are mature and experienced, they can mentor younger staffers, and mentoring is 'the best kind of training,' she says. Experienced professionals do cost more, she acknowledges, which means the company must weigh the cost of hiring veteran workers against the benefits they offer. "You obviously need a

Too Old to Code?

balance in the workforce," she says.

In contrast, programmers who are over 40 can face a bleak future — particularly if they didn't get on the management track or didn't keep their skills up to date. "In some IT departments, you could hang on until the company gets into trouble," says Wadhya. "but when it does, wou'll be the first to go."

When McMullin has interviewed people for the WANE project, some respondents have talked negatively about those "too old to

code," she says. "People would be giving us these descriptions of ZZ Top-looking programmers sitting in the back corner working in Cobol."

The problem for programmers is twofold: For one thing, the desired skills keep changing, requiring them to refresh their talents on a nearly continuous basis. And, unlike managers, programmers often don't have a clear career path within an organization.

Dennis O'Connor is one programmer who, through a mix of hard work and backy breaks, has managed to haing on in high tech without taking the management track. O'Connor is za and still working, most currently as a programmer and analyst for the Alexandria, Va., city government. O'Connor started out at Blue Cross of Viriginia

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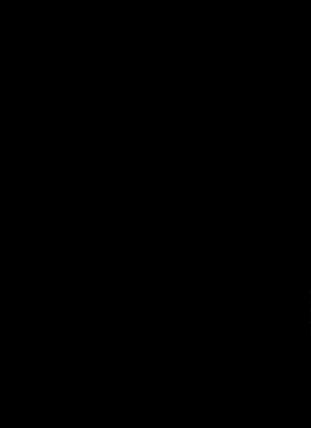
ing of older workers than its corporate counterparts.

He was hired by the city of Alexandria 11 years ago to service a
Cobol-based payroll system, with the understanding that the system
was scheduled to be phased out within a year and a half (but that

has yet to happen, O'Connor points out with some amusement).

During a reorganization several years into his tenure that left





OLDER WORKERS FEEL LESS SECURE 45-54 55+

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Likewise, companies are willing to look at older workers who have the skills the organization needs. For example, Axcelis Technologies, a maker of semiconductor capital equipment, needs professionals with highly specific skills - including physicists, experts in robotics and programmers with FORTH experience says Lynnette Fallon, executive vice president of human resources and legal

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COVER STORY

O'Connor without a clear next step, a higher-up put him in a management position, but it wasn't to O'Connor's liking. "Supervision is not my thing. Over the course of my career, I have not been happy with it," he says. "Any time I could get out of it, I did. I do so much better as a programmer/analyst."

So be talked his way into a job on the Windows client server side of the house, supporting the city's Tidemark Permit Plan system for people in various departments using SQL Server and Crystal Reports — a job he now loves. "It was totally alien to me. I had to figure out what in the world I was doing." O'Connor recalls.

"I'm sure there was some apprehension on the part of my manager that I was being dumped on them, but as it turns out, he has been more or less pleased," he says.

Loval No More

If high-tech watchers and older workers agree on anything, it's that the onus is squarely on IT employees to keep themselves current and capable. They shouldn't expect the industry to behave as if it owes them anything.

Traditional loyalty has disappeared on both sides over the past 30 years — companies in general are no longer paternalistic, and workers don't think twice about jumping ship when they get a better offer. Still, there are some glimmers of hope for an under-

standing between older workers and hiring companies. Michael T. Abbene, who in a 2003 retired as CIO from St. Louis-based Cool, asya "companies still have a responsibility to make training available and encourage people to update their skills."
And on the corporate side, there are operational reasons for com-

panies to consider retaining their older workers. "There is a need for institutional memory, even in a fast-moving field," Abbene argues. As a founder of two software companies, Wadhwa says he had no problem hiring older workers — albeit at salaries that were

no protein naring outer workers — after a satative trial were as o's lower than they had made in previous positions. "For the price, they were a much better value," he says.

He recommends that approach to other employers. "It makes economic sense. They have more experience and they are more steady — they won't leave you," he says.

Wadhwa, like many others, says there is value in the maturity, experience and even keel that many older workers possess. If it's just not as high a value as employers would like, then, well, that's the state of the market circa 2011. • Frequent Computerworld contributor Tam Harbert is a Washington.

Proquent Computerworld contributor Tam Harbert is a Washington, D.C.-based writer specializing in technology, business and public policy. Additional reporting by Computerworld features editor Tracy Mayor. Additional research provided by editorial project manager Mari Kaeth. Bureau of Labor Statistics chart by online managing editor Sharon Machiles.

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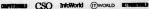
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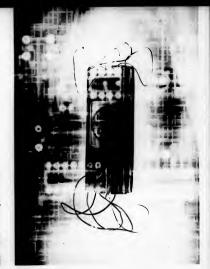








New threats
can turn
smartphones
into spam
bots, shut off
electricity or jam
GPS signals.
BY JOHN
BRANDON



When Cybercriminals ATTACK

RIMINAL MACKERS HEVER SLEEP, it seems, Just when you think you've battened down the hatches and fully safeguarded yourself or your businers from electronic security risks, along comes a new exploit to keep you up at night. It might be an SMS text message with a malevolent payload or an errant signal designed to jum GPS receivers.

Whether you're protecting corporate data or simply trying to keep your personal files safe, these threats — some rapidly growing, others still emerging — put your systems at risk. Fortunately, security procedures and tools are available to help you win the fight.

Continued on page 28



GAME OVER FOR PHONE TAG.



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SECURITY

Continued from page 36

Text-Message Malware

While smartphone viruses are still fairly rare, text-message attacks are becoming more common, according to Rodney Joffe, senior vice president and senior technologist at mobile messaging company Neustar and director of the Conficker Working Group, a coalition of security researchers that came together to fight the malware known as Conficker. PCs are fairly well protected today, he says, so some black-hat hackers are now targeting mobile devices. Their incentive is mostly financial: Text messaging provides a way to break into devices and make money.

Khoi Nguyen, group product manager for mobile security at Symantec, confirmed that text-message attacks aimed at smartphone operating systems are commonplace now that people are increasingly reliant on mobile devices. It's not just consumers who are at risk, he adds. Any employee who falls for a text-message ruse using a company smartphone can jeopardize the business's network and data and possibly cause a compliance violation.

"This is a similar type of attack as [is used on] a computer an SMS or MMS message that includes an attachment, disguised as a funny or sexy picture, which asks the user to open it," Nguyen explains. "Once they download the picture, it will install malware on the device. Once loaded, it would acquire access privileges, and it spreads through contacts on the phone, [who] would then get a message from that user."

In this way, says Joffe, hackers create botnets for sending textmessage spam with links to a product the hacker is selling, usually charging you per message. In some cases, he adds, the malware even starts buying ring tones that are charged on your wireless bill, lining the pockets of the backer selling the ring tones.

Wireless carriers say they do try to stave off the attacks. For instance, Verizon spokeswoman Brenda Raney says the company scans for known malware attacks, isolates them on the cellular network, and even works with federal crime units to block them.

To keep such malware off users' phones, Joffe recommends that businesses institute strict corporate policies limiting whom employees can text using company networks and phones, and what kind of work can be done via text messaging. Another option is a policy that prohibits text messaging entirely, at least until the industry figures out how to deal with the threats.

Hacking Into Smart Grids A common misconception is that only open networks

- say, corporate wireless LANs that visitors may use - are backable. Not true, says Justin Morehouse, a principal consultant at Stratum Security who spoke about network security at last year's DefCon hacker convention. Morehouse says it's actually not that difficult to find

an access point for a so-called closed system. Some nuclear plants and power grids have wireless networks that are vulnerable to attack. And supervisory control and data

acquisition (SCADA) systems aren't safe either. For example, the Stuxnet worm last year infected tens of thousands of Windows PCs running Siemens SCADA systems in manufacturing and utility companies, most notably in Iran. It was largely spread via infected USB flash drives. "Stuxnet proved that it is relatively simple to cause potentially catastrophic damage" to an industrial control network, says Neustar's Joffe. According to Morehouse, another new attack point will be smart grids that use electronic metering to streamline power manage: ment. Utility companies around the world have begun testing and

rolling out smart grids to homes and businesses. The technology, which can send data to and receive it from a central system, can also be very helpful for IT: You can open a console to see the power usage for one section of a building, for example.

But smart grids might be vulnerable to attacks that would allow nefarious hackers to cut off electricity at homes and businesses and wreak other kinds of havoc. One possible attack vector is a smart grid's communications infrastructure. For example, Morehouse says, a German utility company called Yello Strom uses a consumer smart grid system that works like a home automation kit - the sensors report energy usage back to the central server via the user's home Wi-Fi network

The most effective preventive measure, says Morehouse, is rigid isolation - a smart grid should not touch any other network. Given the dangers that can arise if a hacker gains access to a smart grid, he says, companies should conduct penetration tests and make sure that firewalls in closed networks are secure. He advises using tools such as Core Impact and Metasploit.

Social Network Account Spoofing

Users of Facebook, LinkedIn and other social networks are vulnerable to attacks that rely on account spoofing. A scammer poses as either someone you know or a friend of a friend, in order to fool you into revealing personal information. He then uses that information to gain

access to your other accounts and eventually steal your identity. In a typical exploit, says Joffe, someone contacts you on a site like Facebook or LinkedIn, pretending to be a friend of a friend or a co-worker of someone you trust. Then, this new "friend" contacts you directly through text message or email. The correspondence seems legitimate because you believe he has a connection with an individual you trust.

In another scenario, a scammer might impersonate someor you already know - claiming to be an old friend from high school, for instance. Spoofers can find out your connections by following your public feeds or looking up the names of co-workers on sites like LinkedIn, where you've posted your work information.

Once the scammer has established a connection with you,

he uses devious means to steal personal data, such as chatting online to find out the names of your family members, favorite bands, hobbies and other seemingly innocuous information. Then be uses that information to try to guess your passwords or answers to security questions for banking sites, webmail accounts or other online services.

Morehouse describes another type of attack that targets companies as well as individuals. The spoofer might set up a Face-book page that claims to be the official company page for, say, a major retailer. The spoofer might claim that the page is a formal method to contact the company or register complaints.

The page might offer fake coupons to entice people to join, and it soon goes viral as people share it with their friends. Once hundreds or thousands of users have joined the page, says Morehouse, the owner tricks them into giving out personal information perhaps by signing up for additional coupons or special offers.

This ends up being a double attack: Consumers are harmed

because their personal data is compromised, and the company is harmed because its customers now associate the fake Facebook page with the real company - and decide not to buy from that any anymore.

Joffe says there is no way to prevent a criminal from setting up a fake Facebook page, but companies can use monitoring tools such as Social Mention to see how the company name is being used online. If an unauthorized page turns up, companies can ask the social network to remove the fake listing.

> GPS Jamming: Threat or Nuisance? An emerging criminal tactic — interfering with GPS signals — has security experts divided on just how

harmful it could become. Jamming a GPS signal at the source is next to impos sible, says Phil Lieberman, founder of enterprise security vendor Lieberman Software. Blocking the radio signals that are broadcast from orbiting GPS satellites would require a massive countertransmission. And because the satellites are operated by the U.S. military, jamming them would be considered an act of

war and a federal crime, says Lieberman. However, it is easy to jam GPS receivers using low-cost jam devices like one sold by Brando. The devices jam a receiver by overloading it with a signal that's similar to the real GPS signal. The receiver then becomes confused because it can't find a steady satellite transmission.

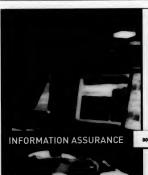
Lieberman doesn't give much credence to fears about jammers

disrupting airplanes or air traffic control systems, because those networks use a completely different GPS signal from the one we use in cars and handheld devices. Jamming could, however, be a ootentially dangerous issue when it comes to financial records, he says, because GPS devices are used in the banking industry to add time stamps to financial transactions. Although completely blocking transactions would be difficult, Lieberman says, an industrious hacker could theoretically disrupt transactions and cause headaches for hanks.

Security expert Roger Johnston, a systems engineer at the Arronne National Laboratory in Chicago, says spoofing GPS signals is the greater danger, explaining that GPS receivers are low-power devices that latch on to any strong signal. He says spoofing could be used for serious crimes - tricking a delivery truck driver into turning down a dark alley, changing the time stamps on financial transactions, delaying emergency vehicles from finding their routes. There have been no reported cases of GPS spoofing to commit a criminal act, but Johnston warns that the government and businesses should work to deter such attacks.

Taking some extra precautions - using strong encryption technology, engaging only with trusted friends on social networks, and using penetration testing software on corporate networks - can alleviate some fears and help you sleep at night, even if the bad guys keep coming up with new exploits. •

Brandon is a former IT manager at a Fortune 100 company who now writes about technology. He's written more than 2,500 articles in the past 20 years. Follow his tweets at @jmbrandonbb.



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FAST START

EELING LIKE your business intelligence efforts are a bit sluggish and out of touch with what the company needs? Maybe it's time to try agile BI, a rapid development methodology that solicits end-user input early and often and delivers BI systems fast.

While the use of the agile software development methodology is a big component of agile BI, it's by no means the only attribute, says Boris Evelson, an analyst at Forrester Research. Forrester defines agile BI as an approach that combines processes, methodologies, tools and technologies, while incorporating organizational structure, in order to help strategic, tactical and operational decision-makers be more flexible and more responsive to ever-changing business and regulatory requirements. Very few organizations have implemented agile BI as Forrester defines it, Evelson says. Based on anecdotal evidence and discussions with clients, he estimates that out of all the organizations that use BI applications, probably less than 20% of the BI user population within those organizations is leveraging some kind of agile BI. But he edicts that this figure will climb to about 80% in the near future. Business intelligence is particularly well suited for agility and the agile development methodology, says David White, an analyst special-

izing in BI at research firm Aberdeen Group. Research conducted by Aberdeen in February and March indicates

Continued on page 32

Every company is a data company.

Over half of the Fortune 100

splunk



Continued from page 30

that organizations face three significant challenges when it comes to effectively delivering BI that is truly valuable to the business. First, data volumes and the number of BI data sources are

First, data volumes and the number of bit data sources are growing. Second, the amount of time managers can devote to decision-making is shrinking. And third, demand for management information is always increasing.

Clearly, BI implementations have to be more agile so managers can easily find the information they need as business requirements change. And to achieve that, companies must analyze their organizations' business needs and take them into account when configuring and deploying BI software, White says.

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The Aberdeen research shows that organizations with the most highly agile BI implementations are more likely to have processes in place for ensuring that business needs are being met

Another key to success is to heavily involve end users in the BI development process. At nearly 70% of the organizations that are successfully deploying agile BI, IT and business people collaborate frequently, according to Aberdeen. Such interaction is not as common at organizations that are less agile; only 50% of them report frequent collaboration between IT and the business.

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Documenting user requirements is critical to the design of the data structures underlying Kiva's BI system, Allen says. "We've found that our users respond best to testing early versions of our BI solutions," he says. "Ad hoc data sourcer enable us to test business logic to collect and incorporate user feedback quickly, before developing more robust reporting data structures. This can expose unforeseen difficulties and lead to more comprehensive solutions."

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Violine is a freelance writer in Massapequa Park, N.Y.
You can contact him at buiolino@optonline.net.



Sensitive Data, in the Wild

It isn't easy to stop your employees from posting things they shouldn't on social media and file-sharing sites.

F YOU don't think it's a big challenge to protect sensitive company information and intellectual property, listen to this story. Last week, one of our sales associates visited a customer to review

associates visited a customer to review the road map for one of our flagship products. This discussion was to be confidential, a you can imagine the sales associate's consternation when the customer said he had already viewed the presentation on the Web. He simply searched SlideShare.net, an

online community for sharing presentations, and found ours. Access wasn't restricted (though restricting it is an option), so he was able to download it and have a

look — ignoring the "Restricted Use Only" label slapped across it. The uproar that this situation created reached me quickly, and I was asked to remove the file from SlideShare.

One difficulty with that request was that only the user who uploaded the file could remove it, and that user had uploaded it anonymously, so I couldn't just send him an email and tell him to take it down. I might have been able to get his attention by blogging about the problem, but then we would we been advertising our insirety to the public advertising our insirety to the public with the public of the public

Because I am a security guy, this turn of events didn't come as a great surprise.

Things like this are inevitable in an era of proliferating social media and cloud-based data sharing and storage. I've denied

several requests to use the cloud to store corporate data — I'm not satisfied with the security these services offer — but reports generated from our firewall show widespread use of these technologies.

Two Options

This event, as well as other situations that arise because it's so easy for users to move things to the cloud on their own, can be handled internally in two ways:



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module I recently released. Technologically, I don't have much to work with, given our current budget and creative to the content fifteering rules on our new recent content fifteering rules on our new content fifteering rules on our new content fifteering rules on our new content on the content fifteering rules on our new content on any personal storage sites, with appropriate exceptions. I know that doing this will have a bustness impact, since certain departments use these sites of the content of the content

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But without solid technical controls, we will have to rely on stern words an employees' sense of responsibility. «
This week's journal is written by a real security manager. "Bathlas Therman," whose name and employer have been disquised for obvious reasons. Contact him at mathina_ thurman@yubaccom.



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Continued from page 30 that organizations face three significant challenges when it comes to effectively delivering BI that is truly valuable to the business.

First, data volumes and the number of BI data sources are growing. Second, the amount of time managers can devote to decision-making is shrinking. And third, demand for management information is always increasing.

Clearly, Bl implementations have to be more agile so managers can easily find the information they need as business requirements change. And to achieve that, companies must analyze their organizations' business needs and take them into account when configuring and deploying Bl software, White says.

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BART PERKINS

Ensuring Project Success

Even aggressive plans can succeed if they are grounded in reality. ROJECT PLANS SOMETIMES GO OFF THE RAILS. That's always been the case, and with the perfection of the human race nowhere on the horizon, it will remain true. But we can reduce the number of projects that fail.

While many factors affect project success, failed projects often stem from flawed plans that don't address basic constraints. When it comes to IT, plans must account for constraints in these areas: Specialized skills. Plans must consider the

availability of high-demand skills. One Fortune spot retabler intended to rebuild almost every application in its portfolio. Initially, the plan apported agreesive but achievable. Deeper analysis revealed significant staffing flaws. Nine key people (including architects and project managers) were each assigned full time to more than one project. Acoust the projecting staff availability against staff and the project of the project of the project of staff and the project of the project of the project of skills are required for just a limited time. This sounds objects, but it to on often ignored.

Califur. Has must accommode an organization distinctive claim. A global enterprise with branched of small, astonomous offices failed to address field office, independence when volling or a corporate help dest. Field offices, which had always readed on overworted for temporate boat II always readed on overworted for temporate boat II always really this calum or atmonstry was acknowledged and addressed by giving local IT safet the power I made to the problem had not been reported to the global help dest. Project plasmes given organizational culture at their period.

Delivery capability. Every IT organization has limitations imposed by infrastructure. One Fortune soo food manufacturer decided to switch from a direct sales force to brokers, while simultaneously changing both its product mix and its credit terms. Unfortunately, its homogrown systems were old, inflexible and poorly documented. The planning team refused to include IT improvements, despite IT's protests. All changes were implemented concurrently, overwhelming the IT systems as predicted. Unable to take orders or ship products for six weeks, the company nearly went out of business.

Budgets. Plans that ignore budget constraints are doomed. One CIO was required to undertake eight major projects in parallel, though the lacked enough project managers. His requests to hire additional staff or to delay several projects were denied. IT staffers are now demoralized, developing a plan they don't believe is feasible; many are exploring other employment concrutuities.

other employment opportunities.
Fiawed plans are often the result of corporate weaknesses. Management pressure is one of the most common weaknesses. That's what led Enron executives to publicly discuss revenue and profit plans that were eventually revealed as fraudulent.

Inexperience is another culprit. Planning teams need enough seasoned participants to ensure that schedules are realistic and that constraints and risks are taken into account.

Deadline-induced carolessness can also play a part. The planning team at the Fortune 500 retailer was under significant time pressure. As the workdays got longer and the deadline approached, communications among the sub-project teams decreased, and the aggregate project plan was not sufficiently cross-checked for inconsistencies.

Even aggressive plans can succeed if they are grounded in reality. But the bolder the plan is, the less room there is for error. Undetected planning flaws lead to failure. •

Bart Perkins is managing partner at Louisville, Kybased Leverage Partners, which helps organizations invest well in IT. Contact him at BartPerkins@ LeveragePartners.com.



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Caree Vatch





Dice

Recruit for IT

A new website from Randstad called Inspiring-Experts com aims to encourage students and young professionals to learn about and pursue careers in growth industries, especially IT. The site is holding a contest in which profes

how they plan to change the world through their jobs once they graduate. Visitors to the site can vote for their favorites. The prize for the winning entry by a student is a

\$10,000 scholarship; the prize for the top vote-getter in the professional category is \$5,000 in rash and another \$5,000 for a charity of the win-

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ERE'S A SHOCKING PIECE OF NEWS: Employees aren't always telling the truth when they call in sick. In fact, in a survey that Harris Interac-

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When IT Workers

Go Missing

While employers reported

sick is the first quarter:

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they had beard for not showing up at work. Some of the excuses don't really sound all that odd (depending on where you live, getting bitten by a deer might not be considered unusual, especially during hunting season). But some of the excuses do stand out, either as great misfortunes or as examples

- of acute creativity. Here are a few examples: One employee said she was at a coffee shop when a truck backed up and dumped a load of flour into her convertible.
- Another hurt his back chasing a beaver.
- A third complained of coming down with a headache after going to too many garage sales.

A New Job App

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You're Right. Now Go Away!

At this big utility, there's the regular IT department, says a pilot fish working there - and then there's IT security. "The IT security department is super secret, super special - all-knowing and all-seeing," says fish. "And we literally have reams of security documentation, rules and regulations. This company ran everything off of PeopleSoft HR software, and we had strict rules on password changes. They were touting all the security and how it protects them and us, blah, blah, blah ...

Then one day, I demonstrated to them how 'secure' PeopleSoft is when you serve it from HTTP instea of HTTP Secure, Yes, they had 10,000 employees accessing PeopleSoft through HTTP - 10,000 user passwords in clear text all day long! They decided to upgrade their PeopleSoft servers to HTTPS. And they told me to shut up and mind my own business."

At Least He Didn't Say It's a Feature This software vendor makes a prod-

uct that interfaces with another com-

mercial package to send faxes out for bids, quotes and invoices, reports a pilot fish working there. "I get a call in support from someone in the quality assurance department saving that they have accidentally sent 200 test faxes and that those faxes need to be killed," fish says. He logs in to the relevant server as an administrator, breaks out to the command prompt and starts trying to kill the fax jobs anually - but every time, it tells him he can't. Finally he goes to the manager of the programming department and describes what's han-

Why We Love Conference Calls

Pilot fish is on a long conference call, battling a major application that is having performance problems. "Forgetting that these calls might be monitored by nontechnical types. I decided to relieve some of the tension * says fish *7 nuinned 'We should set the Run Faster parameter to true.' Everyone had a good laugh. and the call went on into the night. The next day, my manager called me into his office. It seems there was a senior executive who was lurking on the call without announcing his presence. He called my manager's boss to rio him for us not setting the special narameter to true and solving the performance issue. Lam now more careful of what I say on these calls."

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JOHN HALAMKA

The New Metrics For CIO Success

Modern CIOs must think more like CEOs about business needs and future strategies. HEN I BEGAN MY CAREER as a CIO in 1997, success was defined by the basics: email delivery, network connectivity and application functionality. I personally wrote code, experimented with new operating systems and created novel analytics.

In 2011, CIO success is much more complex. Infrastructure success can be defined as 99.99% uptime of all systems and no loss, corruption or breach of data. This is very hard to achieve, and the cloud sets expectations that IT infrastructure should be like heat, power, and light - available

when needed, in the amount required.

by with fewer employees

Application success can be defined as the delivery, on time and on budget, of "go lives" according to project plans. Two important forces make this more complicated. One is the rise of consumer app stores, which set expectations that enterprise software should be easy to find, procure and install. The second is that, as the economy forces downsizing, there's more pressure on the IT department to quickly deliver applications that provide better workflow automation and thus the improvements in efficiency the organization needs when it's scraping

This all sounds impossible. Deliver massive infrastructure in an environment of constant change, but keep it entirely reliable and secure. Deliver applications that support business processes in increasingly short time frames with limited resources - both within the IT department and among the business owners of those processes.

Modern CIOs are not technologists or evangelists for innovation, but customer relationship managers, strategic communicators and project managers, delicately balancing project portfolios, available resources and governance.

Modern CIOs have little time to get infrastructure and applications right. They must think more like CEOs about business needs and future strategies, and they must act more like Wayne Gretzky (who skated not where the puck was, but where it was going to be), to ensure that critical information technology is deployed by the time it is needed.

What am I doing in fiscal 2012 to become a more effective modern CIO? Three things:

1. I'm identifying key business customers and meeting with each one to make sure their priorities are reflected in the current IT operating plan and the five-year IT strategic plan. Working with the governance committees, I will trim the list of priorities to just those projects that have the greatest

impact on business strategy, quality and efficiency.

2. I'm standardizing communications so key customers receive monthly updates about their

priority projects.
3. I'm defining a process for managing IT projects across the enterprise. It includes standardizing the IT project intake process, the IT project life cycle and project management tools (project ocumentation, project plans and status reports).

I hope that by focusing on customer relationship management, communication and project management, I will create a positive working environment for the IT staff, with a manageable set of well-defined projects and engaged customers. Doing a few projects swiftly and in greater depth to meet the most critical needs of the business is much harder than agreeing to do many niche projects and moving slowly on all of them.

CIOs should be judged on their ability to mana demand and achieve reasonable levels of custo satisfaction while focusing on a narrower project portfolio and delivering it at a faster pace. •

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